

ABSTRACT**METHOD FOR DETERMINING THE PHYSICO-CHEMICAL PROPERTIES OF A
THREE-DIMENSIONAL BODY**

5

The method of the invention for determining the physico-chemical properties of a three-dimensional body comprises the following stages:

- a) Generating a database (**BDS**) that contains the data on the bores that define the situation and the physico-chemical properties of the three-dimensional body,
- 10 b) Defining the surface (**T1**) in the spatial centre of the three-dimensional body by triangulation,
- c) Defining on **T1** a cluster of points (**NPS**) generated with regular spacings in the two main directions of the three-dimensional body,
- d) Generating, by creating linked triangles between the points of **NPS**, a new
15 surface (**T2**), very similar to **T1** but in the suitable format for interpolation and graphical representation,
- e) Calculating, by any interpolation method, the properties of the points of **NPS** from the bore database **BDS**,
- f) Generating a new database (**BDT2**) using the triangles of the surface **T2** that
20 contains, for each triangle, the data of the coordinates of the vertices, the results of the interpolation of the vertices and the area of this triangle in space,
- g) Generating reports with the desired information from the database **BDT2** and
- h) Generating three-dimensional graphical representations from the database **BDT2**.

25